

## UNCLASSIFIED

## RDT&amp;E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)

DATE

June 2001

BUDGET ACTIVITY

**07 - Operational System Development**

PE NUMBER AND TITLE

**0401214F Air Cargo Materiel Handling (463-L)**

PROJECT

**5150**

COST (\$ in Thousands)	FY 2000 Actual	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
5150 Next Generation Small Loader (NGSL)	368	0	0	0	0	0	0	0	0	8,773
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0	6

'FY03-FY07 budget numbers do not reflect the DoD strategic review results.'

(U) **A. Mission Description**

This program element contains a project integral to the Air Force's ability to mobilize forces and equipment worldwide. It involves testing, developing and fielding the Halvorsen (formerly the NGSL), which alleviates critical loader deficiencies and provides the Air Force with a state-of-the-art tactical loader capability for the future. The Halvorsen (25K pound capacity) program supports acquisition and delivery of a minimum requirement of 264 loaders that, along with the Tunner (60K Loader), will form the backbone of the Global Reach airlift 463-L (pallet) movement system. The Halvorsen replaces aging 25K loaders and complements the Tunner fleet by providing increased deployability and cargo handling capacity at smaller, but operationally vital peacetime and contingency airfields. More importantly, the Halvorsen has a high reach capability required for direct interface with Wide-Body Aircraft (WBA). This improved capability eliminates the current requirement for a fleet of wide-body elevator loader equipment used in conjunction with both the 40K and 25K loaders to service WBA. Starting in FY97, the Air Force realigned Loader RDT&E funding from PE 0604704F, Common Support Equipment Development, into this dedicated program element, which also contains the procurement funding.

(U) **FY 2000 (\$ in Thousands)**

(U) \$368 Engineering analysis for preproduction testing; GFE/GFP for preproduction testing; travel supporting preproduction testing

(U) \$368 Total

(U) **FY 2001 (\$ in Thousands)**

(U) \$0 No Activity

(U) \$0 Total

(U) **FY 2002 (\$ in Thousands)**

(U) \$0 No Activity

(U) \$0 Total

(U) **B. Budget Activity Justification**

Acquisition of the Halvorsen to support operational mobility aircraft requires no significant development effort; therefore, it is categorized as BA-7, operational system development.

Project 5150

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BUDGET ACTIVITY <b>07 - Operational System Development</b>				PE NUMBER AND TITLE <b>0401214F Air Cargo Materiel Handling (463-L)</b>			PROJECT <b>5150</b>				
(U) <b><u>C. Program Change Summary (\$ in Thousands)</u></b>											
		<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>Total Cost</u>						
(U)	Previous President's Budget (FY 2001 PBR)	493			8,898						
(U)	Appropriated Value	502									
(U)	Adjustments to Appropriated Value										
	a. Congressional/General Reductions	-6									
	b. Small Business Innovative Research	-10									
	c. Omnibus or Other Above Threshold Reprogram	-116									
	d. Below Threshold Reprogram	0									
	e. Rescissions	-2									
(U)	Adjustments to Budget Years Since FY 2001 PBR	0									
(U)	Current Budget Submit/FY 2002 PBR	368			8,773						
(U) <b><u>Significant Program Changes:</u></b>											
None											
(U) <b><u>D. Other Program Funding Summary (\$ in Thousands)</u></b>											
		<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>Cost to</u>	<u>Total Cost</u>
		<u>Actual</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Complete</u>	
(U)	AF RDT&E										
(U)	Other APPN										
(U)	Other Procurement, AF, BA-2, WSC 825150, Halvorsen (NGSL), PE 0401214F	9,653	23,922	53,461	53,065	27,633	8,373	0	0	0	176,107
(U) <b><u>E. Acquisition Strategy</u></b>											
The Halvorsen (25K pound capacity) program supports acquisition and delivery of a minimum requirement of 264 loaders that, with the Tunner (60K), will form the backbone of the Global Reach airlift 463-L (pallet) movement system. Currently, the Air Force uses a 30-year-old 25K loader with an extremely low mean time between failure (approx. 10 hours). Additionally, the 25K loader lacks high reach capability and requires a separate wide body elevator loader (a fixed based high lift transfer platform) to off/on load KC-10 and Civil Reserve Air Fleet (CRAF) Wide-Body Aircraft (WBA). Upgrading the current loader fleet with the Halvorsen will correct the critical high-reach shortcomings of existing 25K loaders and will provide increased flexibility to ensure the Air Force meets its global mobility commitments. The											
Project 5150				Page 2 of 4 Pages				Exhibit R-2 (PE 0401214F)			

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PROJECT

**5150**(U) **E. Acquisition Strategy Continued**

Halvorsen program selected two Non-Developmental Item (NDI) loader manufacturers to build three loaders each. Loaders competed in a 'drive-off' competition, and FMC was awarded a follow-on production contract (Firm Fixed Price) in Jun 00.

(U) **F. Schedule Profile**FY 2000FY 2001FY 2002

1	2	3	4	1	2	3	4	1	2	3	4
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X

(U) LRIP Award

(U) First Delivery

(U) Full-Rate Production

\*Denotes completed milestone

X Denotes planned milestone

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)										DATE	
										June 2001	
BUDGET ACTIVITY					PE NUMBER AND TITLE					PROJECT	
07 - Operational System Development					0401214F Air Cargo Materiel Handling (463-L)					5150	
(U) A. Project Cost Breakdown (\$ in Thousands)											
					FY 2000		FY 2001		FY 2002		
(U) Acquire and test preproduction articles					0		0		0		
(U) Test monitoring, engineering tech. order development, SPO travel, equipment, program management support.					368		0		0		
(U) Total					368		0		0		
(U) B. Budget Acquisition History and Planning Information (\$ in Thousands)											
(U) Performing Organizations:											
<u>Contractor or Government</u>		<u>Contract Method/Type</u>	<u>Award or Obligation</u>	<u>Performing Activity</u>	<u>Project Office</u>	<u>Total Prior to FY 2000</u>	<u>Budget FY 2000</u>	<u>Budget FY 2001</u>	<u>Budget FY 2002</u>	<u>Budget to Complete</u>	<u>Total Program</u>
<u>Performing Activity</u>		<u>or Funding Vehicle</u>	<u>Date</u>	<u>EAC</u>	<u>EAC</u>						
<u>Product Development Organizations</u>											
WR-ALC/LEA		FFP/PR	FY98/2			643	0	0	0	0	643
ASC/SMG		FFP/PR	FY99/1			6,599	0	0	0	0	6,599
ASC/SMG		FFP/PR	FY00/4			835	368	0	0	0	1,203
<u>Support and Management Organizations</u>											
Technical Support Contract						328	0	0	0	0	328
<u>Test and Evaluation Organizations</u>											
					<u>Total Prior to FY 2000</u>	<u>Budget FY 2000</u>	<u>Budget FY 2001</u>	<u>Budget FY 2002</u>	<u>Budget to Complete</u>	<u>Total Program</u>	
<u>Subtotals</u>											
Subtotal Product Development						8,077	368	0	0	0	8,445
Subtotal Support and Management						328	0	0	0	0	328
Subtotal Test and Evaluation											
Total Project						8,405	368	0	0	0	8,773
Project 5150											
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